



4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID	:	CP-RW-2019-04-03-11	Date: 07-03-19
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Pot Holes Filling to Roads in Ward No.06, (Thanisandra) Surrounding Area Byatarayanapura Sub Division.	
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-10.	
Customer Reference	:	BBMP/EE/BTP/KRIDL/WO/255/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	05-03-19	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	05-03-19	
Oven Dry Weight	:	11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	305	305	2.8	97.2	95-100
22.4	2259	2564	23.3	76.7	60-80
11.2	2179	4743	43.1	56.9	40-60
4.75	2251	6994	63.6	36.4	25-40
2.36	1621	8615	78.3	21.7	15-30
0.6	623	9238	84.0	16.0	8-22
0.075	1338	10576	96.1	3.9	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2019-04-03-11 Date: 07-03-19
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Pot Holes Filling to Roads in Ward No.06, (Thanisandra) Surrounding Area Byatarayanapura Sub Division.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-10.
Customer Reference : BBMP/EE/BTP/KRIDL/WO/255/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-03-19
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 05-03-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2019-04-03-11 Date: 07-03-19
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division,
BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Pot Holes Filling to Roads in Ward No.06, (Thanisandra)
Surrounding Area Byatarayanapura Sub Division.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main
Road, 3rd Y Block, Rajajinagara, Bangalore-10.
Customer Reference : BBMP/EE/BTP/KRIDL/VO/255/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-03-19
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 05-03-19

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

Note:-

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2019-04-03-11 **Date:** 07-03-19
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
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Customer Reference : BBMP/EE/BTP/KRIDL/WO/255/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-03-19
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 05-03-19

Result:

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Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

**TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)**

Lab ID : CP-RW-2019-04-03-11 Date: 18-03-19
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Pot Holes Filling to Roads in Ward No.06, (Thanisandra) Surrounding Area Byatarayanapura Sub Division.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-10.
Customer Reference : BBMP/EE/BTP/KRIDL/WO/255/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-03-19
Type of Mix : BC-Plant (Bituminous Concrete)
Date of test : 15-03-19
Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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Quality Manager

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2019-04-03-11 Date: 18-03-19
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Pot Holes Filling to Roads in Ward No.06, (Thanisandra) Surrounding Area Byatarayanapura Sub Division.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-10.
Customer Reference : BBMP/EE/BTP/KRIDL/WO/255/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-03-19
Type of Mix : BC(Bitumenous Concrete)
Date of test : 15-03-19

Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : CP-RW-2019-04-03-11 Date: 18-03-19
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Pot Holes Filling to Roads in Ward No.06, (Thanisandra) Surrounding Area Byatarayanapura Sub Division.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-10.
Customer Reference : BBMP/EE/BTP/KRIDL/VO/255/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-03-19
Type of Mix : BC (Bituminous Concrete)
Date of test : 15-03-19

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2019-04-03-11 **Date:** 18-03-19
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Pot Holes Filling to Roads in Ward No.06, (Thanisandra) Surrounding Area Byatarayanapura Sub Division.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-10.
Customer Reference : BBMP/EE/BTP/KRIDL/VO/255/2018-19
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 15-03-19
Type of Mix : BC (Bituminous Concrete)
Date of test : 15-03-19

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	—

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-RW-2019-04-03-11 Date: 22-03-19
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Pot Holes Filling to Roads in Ward No.06, (Thanisandra) Surrounding Area
Byatarayanapura Sub Division.
Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block,
Rajajinagara, Bangalore-10.
Customer Reference : BBMP/EE/BTP/KRIDL/WO/255/2018-19
Source of Sample : Sample supplied by Agency
Date of Receipt : 20-03-19
Type of Mix : BC (Bituminous Concrete)
Date of test : 20-03-19

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$ A	5.6	5.4
4	Average percentage	%	5.5	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT ON BITUMEN

Lab ID	:	CP-RW-2019-04-03-11	Date: 13-03-19
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Pot Holes Filling to Roads in Ward No.06, (Thanisandra) Surrounding Area Byatarayanapura Sub Division.	
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-10.	
Customer's Reference	:	BBMP/EE/BTP/KRIDL/WO/255/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-03-19	
Sample Type	:	Bitumen	
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)	
Date of test	:	12-03-19	

Test Results

Sl.no	Name of Test	Result	Requirements as per IS-73 2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	248	Min. 220°C
	Fire point, °C	272	

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